



SEQUENCE LISTING

<110> Ching-Hsaing, Hsu
Cheng, Winston T. K.

<120> ALLERGEN-CONTAINING MILK FOR ALLERGY
TREATMENT

<130> 12774-003001

<140> 09/877,160

<141> 2001-06-08

<160> 10

<170> FastSEQ for Windows Version 4.0

<210> 1

<211> 132

<212> PRT

<213> Dermatophagoides pteronyssinus

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Val	Ser	Gly	Glu	Asp	Lys	Lys	His	Asp	Tyr	Gln	Asn	Glu	Phe	Asp	Phe
			20					25					30		
Leu	Leu	Met	Glu	Arg	Ile	His	Glu	Gln	Ile	Lys	Lys	Gly	Glu	Leu	Ala
		35					40					45			
Leu	Phe	Tyr	Leu	Gln	Glu	Gln	Ile	Asn	His	Phe	Glu	Glu	Lys	Pro	Thr
	50					55				60					
Lys	Glu	Met	Lys	Asp	Lys	Ile	Val	Ala	Glu	Met	Asp	Thr	Ile	Ile	Ala
65					70				75						80
Met	Ile	Asp	Gly	Val	Arg	Gly	Val	Leu	Asp	Arg	Leu	Met	Gln	Arg	Lys
			85						90					95	
Asp	Leu	Asp	Ile	Phe	Glu	Gln	Tyr	Asn	Leu	Glu	Met	Leu	Lys	Lys	Ser
			100					105					110		
Gly	Asp	Ile	Leu	Glu	Arg	Asp	Leu	Lys	Lys	Glu	Glu	Ala	Arg	Val	Lys
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Lys	Ile	Glu	Val												
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<210> 2

<211> 320

<212> PRT

<213> Dermatophagoides pteronyssinus

<400> 2

Met	Lys	Ile	Val	Leu	Ala	Ile	Ala	Ser	Leu	Leu	Ala	Leu	Ser	Ala	Val
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Tyr	Ala	Arg	Pro	Ser	Ser	Ile	Lys	Thr	Phe	Glu	Glu	Tyr	Lys	Lys	Ala
			20					25					30		
Phe	Asn	Lys	Ser	Tyr	Ala	Thr	Phe	Glu	Asp	Glu	Glu	Ala	Ala	Arg	Lys
		35					40					45			
Asn	Phe	Leu	Glu	Ser	Val	Lys	Tyr	Val	Gln	Ser	Asn	Gly	Gly	Ala	Ile
		50				55					60				

Asn His Leu Ser Asp Leu Ser Leu Asp Glu Phe Lys Asn Arg Phe Leu
 65 70 75 80
 Met Ser Ala Glu Ala Phe Glu His Leu Lys Thr Gln Phe Asp Leu Asn
 85 90 95
 Ala Glu Thr Asn Ala Cys Ser Ile Asn Gly Asn Ala Pro Ala Glu Ile
 100 105 110
 Asp Leu Arg Gln Met Arg Thr Val Thr Pro Ile Arg Met Gln Gly Gly
 115 120 125
 Cys Gly Ser Cys Trp Ala Phe Ser Gly Val Ala Ala Thr Glu Ser Ala
 130 135 140
 Tyr Leu Ala Tyr Arg Asn Gln Ser Leu Asp Leu Ala Glu Gln Glu Leu
 145 150 155 160
 Val Asp Cys Ala Ser Gln His Gly Cys His Gly Asp Thr Ile Pro Arg
 165 170 175
 Gly Ile Glu Tyr Ile Gln His Asn Gly Val Val Gln Glu Ser Tyr Tyr
 180 185 190
 Arg Tyr Val Ala Arg Glu Gln Ser Cys Arg Arg Pro Asn Ala Gln Arg
 195 200 205
 Phe Gly Ile Ser Asn Tyr Cys Gln Ile Tyr Pro Pro Asn Val Asn Lys
 210 215 220
 Ile Arg Glu Ala Leu Ala Gln Thr His Ser Ala Ile Ala Val Ile Ile
 225 230 235 240
 Gly Ile Lys Asp Leu Asp Ala Phe Arg His Tyr Asp Gly Arg Thr Ile
 245 250 255
 Ile Gln Arg Asp Asn Gly Tyr Gln Pro Asn Tyr His Ala Val Asn Ile
 260 265 270
 Val Gly Tyr Ser Asn Ala Gln Gly Val Asp Tyr Trp Ile Val Arg Asn
 275 280 285
 Ser Trp Asp Thr Asn Trp Gly Asp Asn Gly Tyr Gly Tyr Phe Ala Ala
 290 295 300
 Asn Ile Asp Leu Met Met Ile Glu Glu Tyr Pro Tyr Val Val Ile Leu
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<210> 3

<211> 146

<212> PRT

<213> Dermatophagoides pteronyssinus

<400> 3

Met Met Tyr Lys Ile Leu Cys Leu Ser Leu Leu Val Ala Ala Val Ala
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 Arg Asp Gln Val Asp Val Lys Asp Cys Ala Asn His Glu Ile Lys Lys
 20 25 30
 Val Leu Val Pro Gly Cys His Gly Ser Glu Pro Cys Ile Ile His Arg
 35 40 45
 Gly Lys Pro Phe Gln Leu Glu Ala Val Phe Glu Ala Asn Gln Asn Thr
 50 55 60
 Lys Thr Ala Lys Ile Glu Ile Lys Ala Ser Ile Asp Gly Leu Glu Val
 65 70 75 80
 Asp Val Pro Gly Ile Asp Pro Asn Ala Cys His Tyr Met Lys Cys Pro
 85 90 95
 Leu Val Lys Gly Gln Gln Tyr Asp Ile Lys Tyr Thr Trp Asn Val Pro
 100 105 110
 Lys Ile Ala Pro Lys Ser Glu Asn Val Val Val Thr Val Lys Val Met
 115 120 125
 Gly Asp Asp Gly Val Leu Ala Cys Ala Ile Ala Thr His Ala Lys Ile
 130 135 140

Arg Asp
145

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<211> 21
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<220>
<223> oligonucleotide for PCR

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<220>
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gctcgagcat gaaattcatc 20

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<400> 7
actcgagtga tgaaggcaac aag 23

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ctctcttgtc atcctcttcc 20

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 actcgagtga tgaaggcaag aag

23

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 <213> Dermatophagoides pteronyssinus

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 Met Lys Phe Ile Ile Ala Phe Phe Val Ala Thr Leu Ala Val Met Thr
 1 5 10 15

gtt tca ggt gaa gat aaa aaa cat gat tat caa aat gaa ttt gat ttc 157
 Val Ser Gly Glu Asp Lys Lys His Asp Tyr Gln Asn Glu Phe Asp Phe
 20 25 30

tta ttg atg gaa cgt att cat gaa caa att aaa aaa ggt gaa ctt gca 205
 Leu Leu Met Glu Arg Ile His Glu Gln Ile Lys Lys Gly Glu Leu Ala
 35 40 45

ttg ttc tat ctt caa gaa cag att aat cat ttt gaa gaa aaa cca aca 253
 Leu Phe Tyr Leu Gln Glu Gln Ile Asn His Phe Glu Glu Lys Pro Thr
 50 55 60

aaa gaa atg aaa gat aaa att gta gcc gaa atg gat acc att att gct 301
 Lys Glu Met Lys Asp Lys Ile Val Ala Glu Met Asp Thr Ile Ile Ala
 65 70 75 80

atg atc gat ggt gta cgt ggt gta ctt gat cgt ctt atg caa cgt aaa 349
 Met Ile Asp Gly Val Arg Gly Val Leu Asp Arg Leu Met Gln Arg Lys
 85 90 95

gat tta gat att ttt gaa caa tat aat ctt gaa atg ctc aaa aaa tct 397
 Asp Leu Asp Ile Phe Glu Gln Tyr Asn Leu Glu Met Leu Lys Lys Ser
 100 105 110

ggt gat att ttg gaa cgt gat ttg aaa aaa gaa gaa gca cgt gtt aaa 445
 Gly Asp Ile Leu Glu Arg Asp Leu Lys Lys Glu Glu Ala Arg Val Lys
 115 120 125

aat att gaa gtt aagctttgaa ttcagatccg ttaccaacta cctagactgg 497
 Asn Ile Glu Val

130

attcgtgaca	atatgcggcc	gtgatatcta	cgtatgatca	gcctcgactg	tgcctttcttg	557
ttgccttcat	cactcgagtc	tagagggcc	gtttaaacc	gctgacgagc	ctcgactgtg	617
ccttcta						624